

CENTER FOR BIOMEDICAL OPTICS

CENTER

Established in 1999, to commercialize optical technologies for diagnostic and therapeutic treatments in biomedicine, the Center for Biomedical Optics capitalizes on recent advances in laser materials and laser spectroscopy.

TECHNOLOGY

The Center develops new optical and laser instrumentation to detect specific chemicals (e.g. carotenoid antioxidants) in human tissue. Concurrently a new method for optical imaging is being developed. A specialized laser radiation technique is being developed to treat certain cancers.

ACCOMPLISHMENTS

A new prototype has been designed and fabricated to detect antioxidant molecules in human skin. Preliminary clinical studies in cancer patients were completed. Subsequent clinical trials at the Huntsman Cancer Institute Melanoma Clinic are in progress. Future cancer targets for diagnosis include oral and cervical cancers.

One patent application has been filed and two inventions have been disclosed.

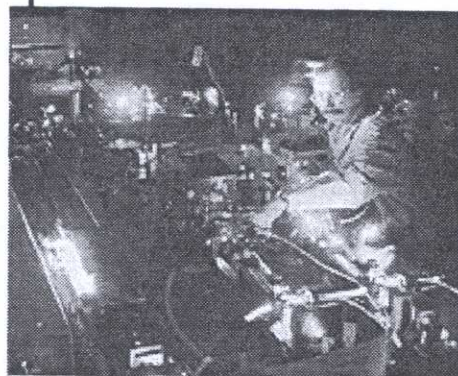
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Can You Imagine...

... a non invasive optical laser technique to detect and treat cancerous cells in the skin or mucosal tissue.

THE CENTER DEVELOPS OPTICAL AND LASER INSTRUMENTATION FOR VARIOUS NON-INVASIVE DIAGNOSIS OF SPECIFIC CHEMICALS IN TISSUE AND CANCER CELLS



The picture shows a laboratory scale laser instrumentation being developed at the Center.